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	ATTORNEY DOCKET NO.	CONFIRMATION NO.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,272	01/14/2002	Bum-Yeul Park	SAM-0291	4505
7590 12/01/2004			EXAM	INER
Steven M. Mi	ills	GHYKA, ALEXANDER G		
MILLS & ONE Suite 605	ELLO LLP		ART UNIT	PAPER NUMBER
Eleven Beacon Street			2812	
Boston, MA	02108		DATE MAILED: 12/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/047,272	PARK, BUM-YEUL				
Office Action Summary	Examiner	Art Unit				
	Alexander G. Ghyka	2812				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions after the reply within the set or extended period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply will, by state the period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply within the set or extended period for reply will, by state the period for reply will.	1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 and will apply and will expire SIX (6) MONTH: ute, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16	September 2004.					
·= · ·	nis action is non-final.					
3) Since this application is in condition for allow		s, prosecution as to the merits is				
closed in accordance with the practice under	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application	on.					
4a) Of the above claim(s) is/are withdo	rawn from consideration.	ALEXANDER GHYKA				
5) Claim(s) is/are allowed.		PRIMARY EXAMINER				
6)⊠ Claim(s) <u>1-16</u> is/are rejected.		AU2812				
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examin	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached C	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume	nts have been received. nts have been received in App ionty documents have been re	lication No				
* See the attached detailed Office action for a li	st of the certified copies not red	ceived.				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sum	nmary (PTO-413)				
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	Mail Date mal Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	mai i atent Apphoation (r 10-102)				

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DETAILED ACTION

Applicants' amendments and arguments have been considered and entered in the record. Applicants' arguments are not persuasive for the reasons as discussed below.

Claim Rejections - 35 USC § 103

Claims 1-6 and 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kornrumpf (US 5,345,205) for the reasons of record.

Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kornrumpf (US 5,345,205) for the reasons of record.

Response to Applicants Arguments

Applicants have amended the claims to require the limitation "with no intervening structures between the semiconductor chips and the film." Applicants argue that Kornrumpf disclose a multimodule microwave system 100 which uses a high density interconnect structure to interconnect a plurality of assembled modules 101, 102 and 103. Applicant argues that Kornrumpf modules 101, 102 and 103 include a substrate 110 and a plurality of semiconductor chips, which are referred to in the reference as "chips" and bonded to substrate 110. Applicants argument that a module and not a chip is attached to the substrate is not convincing as the Kornrumpf reference clearly labels element 120 as a chip, which can be bonded to the substrate. Moreover, there is

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nothing in the Specification which would indicate to a practitioner in the art what intervening structures are excluded. As Kornrumpf reference labels element 120 as a chip a *prima facie* case of obviousness is established. The fact that modules are also disclosed in the drawings and Specification, does not change infer patentability as element 120 is clearly labeled a chip and directly attached to flexible structure 130. See Figure 1.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (571)

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272-1669. The examiner can normally be reached on Monday through Thursday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John F Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AGG November 28, 2004

ALEXANDER GHYKA PRIMARY EXAMINER